Applicant: Walter J. Ferguson, et al. Attorney's Docket No.: 15826-194001 / II-03-05

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Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application; please amend the claims as follows:

1. (Original) A device for measuring temperature, the device comprising: a housing;

a temperature-responsive element supported relative to the housing, the element operable to sense temperature and move in response to temperature changes;

a first inductive assembly component fixed relative to the housing; and

a second inductive assembly component operatively and movably positioned relative to the first inductive assembly component, the second inductive assembly component being driven by movement of the temperature-responsive element, the movement of the second inductive assembly component relative to the first inductive assembly component generating a change in a local eddy current pattern corresponding to the sensed temperature.

- 2. (Original) The device of claim 1, wherein a current at a particular point in a sensing circuit is proportional to the temperature changes causing the temperature-responsive element to move.
- 3. (Original) The device of claim 1, further comprising a circuit board comprising the first inductive assembly component.
- 4. (Original) The device of claim 3, wherein the circuit board comprises a processor responsive to generated eddy current patterns to generate a signal representative of sensed temperature.

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5. (Original) The device of claim 4, wherein the processor determines the movement of the temperature-responsive element based on the generated eddy current patterns and associates the movement with a temperature to generate the signal.

- 6. (Original) The device of claim 1, wherein the temperature-responsive element comprises a first portion generally fixed relative to the housing and a second portion displaceable relative to the first portion, wherein the second portion drives the second inductive assembly component.
- 7. (Original) The device of claim 6, further comprising a visual indicator movably positioned relative to the housing and driven by the second portion of the temperature-responsive element to indicate temperature.
- 8. (Original) The device of claim 1, wherein the second inductive assembly component comprises a gear with a pitch ratio larger than that of the temperature-responsive element.
- 9. (Original) The device of claim 8, wherein the gear comprises a protuberance that operates as an inductive target in the inductive assembly.
- 10. (Original) The device of claim 8, wherein the pitch ratio of the gear is approximately fifteen times larger than that of the temperature responsive element.

11-38. (Canceled)